

Amendments to the Claims

This listing of Claims will replace all prior versions, and listings, of Claims in the application.

1. (Currently Amended) A method of subpixel rendering input image data onto a display panel, said input image data comprises image data formatted for a first subpixel layout and wherein said display panel comprises a second subpixel layout ~~further~~ comprising a repeating grouping of a plurality of primary colored subpixels and said second subpixel layout is different from said first subpixel layout, ~~the steps of~~ said method comprising:

subpixel rendering input image data that is input at a first clock rate;
outputting subpixel rendered data to said display panel at a second clock rate.

2. (Original) The method of Claim 1 wherein said subpixel repeating group further comprises at least one column in which more than one color primary comprises said column.

3. (Previously Presented) The method of Claim 1 wherein said first clock rate and said second clock rate are the same and dummy data is inserted into said outputted subpixel rendered data.

4. (Original) The method of Claim 1 wherein said first clock rate and said second clock rate are different.

5. (Original) The method of Claim 1 wherein said input image data comprises more subpixel data sets for each image frame than said number of subpixel data set for each image frame for rendering on said display panel.

6. (Original) The method of Claim 1 wherein said method further comprises the step of outputting a signal indicating valid output data to the display controller.

7. (Currently Amended) A method of subpixel rendering input image data onto a display panel, wherein said input image data comprises image data formatted for a first subpixel

layout and wherein said display panel comprises a second subpixel layout further comprising a repeating grouping of a plurality of primary colored subpixels and said second subpixel layout is different from said first subpixel layout, ~~the steps of~~ said method comprising:

subpixel rendering input image data that is input at a first clock rate;
outputting subpixel rendered data to said display panel at a second clock rate wherein the output image data is buffered.

8. (Original) The method of Claim 7 wherein said subpixel repeating group further comprises at least one column in which more than one color primary comprises said column.

9. (Original) The method of Claim 6 wherein said output image data sent to the display controller does not comprise dummy image data.

10. (Original) The method of Claim 6 wherein said first clock rate and said second clock rate are the same.

11. (Original) The method of Claim 6 wherein said first clock rate and said second clock rate are different.

12. (Currently Amended) A method of subpixel rendering input image data onto a display panel, said input image data comprises image data formatted for a first subpixel layout and wherein said display panel comprises a second subpixel layout further comprising a repeating grouping of a plurality of primary colored subpixels and said second subpixel layout is different from said first subpixel layout, ~~the steps of~~ said method comprising:

subpixel rendering input image data that is input asynchronously;
outputting subpixel rendered data to said display panel in a format wherein dummy data is inserted into the output data such that a timing scheme is affected to map said input image data formatted for said first colored subpixel layout onto said output data formatted for said second colored subpixel layout.

13. (Original) The method of Claim 12 wherein said subpixel repeating group further comprises at least one column in which more than one color primary comprises said column.

14. (Currently Amended) A system for rendering input image data formatted for a first colored subpixel layout onto a display panel comprising a second colored subpixel layout comprising a repeating group of colored subpixels and wherein said first subpixel layout is different from some of said second subpixel layout, said system comprising:

a input means for accepting input image data formatted for said first colored subpixel layout;

a subpixel rendering engine for remapping the input image data into output data formatted for said second colored subpixel layout;

a channel formatter for effectively ordering said output data such that a timing scheme is affected to map said input image data formatted for said first colored subpixel layout onto said output data formatted for said second colored subpixel layout; and

a means for outputting the data formatted by said channel formatter to said display.

15. (Original) The system of Claim 14 wherein said system further comprises a gamut mapping system for remapping the image data in a first colored subpixel data format into said second colored subpixel data format wherein said first colored subpixel data comprises data in a first set of primary colors and said second colored subpixel data format comprises data in a second set of primary colors.

16. (Original) The system of Claim 14 wherein the channel formatter formats said output data according to the number of channels available to the display controllers.

17. (Original) The system of Claim 16 wherein the channel formatter adds dummy image data to the valid output data set.